M. A. R. 57 (Rule 116)

Measurement Book

No. B 184313

Serial No. BR- 13 / 30-4-14

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Name of work :- Improvements to CC Roads & Drains & providing Coveling Slab at Horabalu Nagar in Ward No. 11						
	Work Code No :- 044-14-000049 Estimated Cost :- 10.00 Lakhs						
	Work order No :- EE/BSP/BBMP/E-pmt/538/13-14 Date: 24/2/14						
	Name of Agency :- Sri Sathish (M.S Enterprises) Marri Street, 1st East Road Kannuramma Temple Street Devi Nagar RMV layout B-lore.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Earth work excavation by manual means in ordinary soil involving an average horizonted throw upto 2 mtrs & an average lift upto 0.5 mtr, excavated surface leveled & sides neatly dressed, the disposed earths to be leveled neatly after breaking of clods etc complete as per Specifications.						
	For C/Road 6th cross.	1	15.00	$\frac{5.40+6.00}{2}$	0.15	= 11.70	
		1	15.00	$\frac{5.00+4.19}{2}$	0.15	= 10.91	
		1	2.80	$\frac{4.70+4.49}{2}$	0.15	= 1.96	

M. A. R. 57 (Rule 116)

Measurement Book

No. B 184314

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7th Cross Road	1	15.00	$\frac{5.40+8.10}{2}$	0.15	= 11.81	
		1	15.00	$\frac{5.10+4.80}{2}$	0.15	= 11.14	
		1	2.80	$\frac{4.80+4.60}{2}$	0.15	= 1.97	
	8th Cross Interior Road	1	16.00	$\frac{3.20+4.00}{2}$	0.15	= 8.64	
		1	19.00	$\frac{3.20+4.60}{2}$	0.15	= 11.12	

CRFC

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref to Meas
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	Main Road	1	12.70	9.10	[illegible]	16 = 16.76	
	CC Drain	1	80.00	0.90	0.90	= 16.20	
				Total Q/y		102.40 Cu3	
				Limited to		98.60 Cu3	
				Jlg. 89.81		Ny. 8801	
2)	Construction of embankment with approved Natural gravel/murrum with all lifts, loading, transporting site, spreading, grading to required slope Comp to meet requirement table 300-3, which is						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184315

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Cost of gravel/murrum watering charges of compaction by vibratory roller etc. Complete as per specification premeasurement qty vide page no 184392						
	Total qty					150.15	m³
	Limited To					147.80	m³
	@					164.66	Rs 24501=00
	3) providing & laying in position plain cement concrete q						

C&Fc

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184315

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Dimensions Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Cost of gravel/murrum watering charges & compaction by vibratory roller etc. Complete as per specification & premeasurement qty vide page no 184392						
				Total qty		150.15 m³	C&Fc
				Limited to		148.80 m³	
				SM	164.66	Rs 24501=00	
3)	providing & laying in position pre cast cement Concrete q						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremer
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Mix M-7.5 With Opc Cement @ 180 Kgs using 40mm SF down Size graded granite metal Coarse aggregate @ 0.85 Cum & Fine aggregate @ 0.58 Cum machine Mixed Concrete laid in layers not exceeding 15 Cms thick well Compacted, in Foundations & plinth, inc Under cut & all Materials, labour, Hire & Machinery Charges etc, Complete as per Specifications						
	ce Road 6th Cross	1	15.00	$\frac{5.40+5.00}{2}$	0.15	= 11.70	CF
		1	15.00	$\frac{5.00+4.70}{2}$	0.15	= 10.91	

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Measurement Book

No. B 184316

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	8th Cross Interior Road	1	2.80	$\frac{4.70+4.60}{2}$	0.15	1.95	
		1	16.00	$\frac{3.20+4.00}{2}$	0.20	11.52	
		1	19.00	$\frac{3.20+4.60}{2}$	0.15	11.12	
	Hosakerehalli Nagar Main Road	1	22.10	$\frac{9.10+8.70}{2}$	0.15	29.50	
	CC Drain	1	20.00	1.00	0.20	4.00	

CBR: Pg 14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Culvert	1	8.60	1.80	0.20	3.10	
					Total qty	83.80 cu.m	
					limited to	82.20 cu.m	
					@ ₹ 4247.93	Rs. 349180-00	
	4) providing & Removing centering, shuttering, strutting propping etc & removal of form work for vertical surfaces such as walls of any thickness, including attached pilasters, buttresses, plinth & string courses Cost of all Materials labour etc. Complete as per Specifications						
	premeasurement qty vide page No 184323						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184317

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total Qty		135.88 m²	
				@ Rs 268.37		Rs. 36466.00	
	5) providing & laying in position reinforced cement concrete of design mix M20 with Opc. cement @ 320 kgs with 20mm & down size graded granite Metal (coarse aggregates @ 0.878 Cum & Fine aggregates @ 0.459 Cum with Superplastisizer @ 3 lts Conforming to IS 9103-1999 reaffirmed-2008 Machine Mixed concrete laid in layers not exceeding 15 Cm						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremer
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	thick, vibrated for all works in Foundation plinth & ground floor level for roof slabs, stair case, lintels retaining walls, return walls, Wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts struts, buttresses, including Cost of all Materials, labour Hom & Machinery, curing etc. complete as per specification						
	CC culvert						
		1	8.60	1.80	0.20	3.10	
		2	8.60	0.30	0.60	3.10	
	Slab	1	8.60	1.80	0.23	3.56	
	CC Drain bottom	1	8.00	0.90	0.15	1.70	
		2	8.00	0.15	0.60	2.16	

C&C 7

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184318

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1 × 20.00 × 0.90 × 0.10 = 1.80					
					Total Qty	17.85 cu	
					Limited to	17.60 cu	
					@ ₹ 5583.36	₹ 98267.00	
	6) providing TMT Steel reinforcement for R.C.C work including straightening, Cutting, bending, Hooking, placing in position lapping & or welding wherever required tying with binding wire & anchoring to the supporting member						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Wherever necessary Complete as per design cost of Materials labour Hom & Machinery etc. Complete as per Specifications premeasurement Qty vide page No. 184394						
						Total Qty 11.57 Cu.M	
						deduct 1.44 Cu.M	
						Qty 10.13	Rs. 84386=00
7)	providing & fixing 20mm thick compressible fibre board in expansion joint Complete as per drawings & Technical Specifications etc. Complete as per Specifications.						
		2	× 4.00	—	—	= 8.00	
		4	× 4.50	—	—	= 18.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Wherever necessary Complete as per design Cost of Materials labour Hire & Machinery etc. Complete as per Specifications premeasurement Qty vide page No 184394						
						Total Qty 11.57 Cum	
						less 'red to (1.44) (Cum)	
						Qty = 37641	Rs. 84386=00
7)	providing & fixing 20mm thick compressible fibre board in expansion joint Complete as per drawings & Technical Specifications etc. Complete as per Specifications.						
		2	× 4.00	—	—	= 8.00	
		4	× 4.60	—	—	= 18.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184319

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		3	× 4.50	–	–	= 13.50	
		3	× 4.00	–	–	= 12.00	
					Total Qty	51.50 Mtr	
					limited to	48.80 Mtr	
						@ ₹ 135.79	₹ 6627.00

CRC

1) providing & laying Cement Concrete using 20mm & down size granite Jelly & ready Mixed Concrete (RMC) For R.C.C. Works laid in 15cm thick layers & well Compacted

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Vibrating, Curing, finishing with Necessary Cement Mortar form works and Scaffolding to withstand pumping of Concrete, with all lead & lifts etc. Complete Ready Mixed Cement Concrete M-20 (1:1.5:3) For raft foundation, Columns Footing Main & Secondary beams etc. Complete as per specifications.						
	6th Cross Road	1	15.00	$\frac{5.40+5.00}{2}$	0.10	= 7.80	
		1	15.00	$\frac{5.00+4.79}{2}$	0.10	= 7.23	
		1	2.80	$\frac{4.70+4.60}{2}$	0.10	= 1.30	
	8th Cross Interior Road	1	16.00	$\frac{3.20+4.00}{2}$	0.10	= 5.76	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184320

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Page 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			1 × 19.00 × 3.20 + 6.60 / 2 × 0.10 = 7.41				
	Hasabulla Nagar Main Road		1 × 22.70 × 9.10 + 8.70 / 2 × 0.10 = 20.30				
				Total Qty		49.75 M³	
				Limited		49.60 M³	
				JM. 6400.23		M. 317451=00	
	2) Vaccum De-watering with vaccum pump & Suction Mat &						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Compaction with Skid Plate Vibrator disc including cost of generator Hiring Machinery Screed Vibratory, power Floater, blade & disc etc. Complete as per Specification.						
	CC Road 6th cross Road.	1	15.00	$\frac{5.40+5.40}{2}$		= 78.00	
		1	15.00	$\frac{5.00+4.70}{2}$		= 72.75	
	8th cross Interior Road	1	2.80	$\frac{4.70+4.60}{2}$		= 13.02	
		1	16.00	$\frac{3.20+4.00}{2}$		= 57.60	

C & E Total

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184321

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
		1	19.00	3274.60 / 2		= 74.10	
	Hokabaka Nagar Main Road	1	22.70	9.10+8.70 / 2		= 202.03	
				Total Qty		497.50 cu.m	LSC P3.14
				Deduction to		496.00 cu.m	
				Rs	90.88	Rs. 45076=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate: Certified that the above work total done is satisfactorily.					Rs 970755=00	
						30/4/14	970293=
	970293=00						
	133711=00						
	836582=00						
	Krishna foods						
						133711=00	

M. A. R. 57 (Rule 116)

Measurement Book

No. B 184322

Serial No .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Hotabad Nagar Main Rd.				16.00m	CC Road	
					6m cross		
					22.70m	Culvert	
					6m cross		
						CC Drain	
					31.80m		
	CC Road				20.00m		

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Measurement Book

No. B 184391

From ..... To .....

Name of Agency .....

Name of work .....

Number	Dimensions			Contents	Reference to last Measurement
	Length	Breadth	Depth		
3	4	5	6	7	8

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Conte
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
		1	6·00	3·50	0·30	6·3
		1	6·00	3·00	0·30	5·4
		1	5·50	3·90	0·30	6·4
		1	6·50	4·50	0·45	13·1
		1	9·00	4·20	0·35	13·2
		1	6·50	4·50	0·35	10·2
		1	6·50	4·50	0·35	10·2
		1	6·20	4·20	0·35	9·1
		1	6·00	4·00	0·20	4·8

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184392

..... From ..... To .....

Agency.....

.....

of work	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1 × 5.50	× 4.20	× 0.35 =	8.09	
		1 × 5.00	× 4.30	× 0.35 =	7.53	
		1 × 6.50	× 4.20	× 0.30 =	8.19	
		1 × 6.20	× 4.00	× 0.35 =	8.68	
		1 × 5.50	× 4.00	× 0.35 =	7.70	
		Total Qty			150.15 cu.m	
		Limited To			148.80 cu.m	

(8 Fc 2)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Cont
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
2)	providing & Removing centering, shuttering propping etc. Slab					
		1	27.00	0.60	=	15.0
		4	8.60	—	0.90 =	30.9
		1	8.60	0.75	— =	6.45
	Curvs.	2	8.60	—	0.25 =	4.30
		2	1.80	—	0.25 =	0.90
		4	20.00	0.75	— =	15.0
		2	20.00	—	0.15 =	6.00
		2	0.90	—	0.15 =	0.27
	Slab	1	[illegible]	—	[illegible] =	12.0

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184393

From ..... To .....

e of Agency.....

ork.....

etc, of work	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Total Qty			135.88 m²	
		Length wall ?				
g TMT steel reinforcement for R.C.C work						
g straightening, cutting, bending etc.						
tivers						
ide Wall 120mm		43 x 3.00			= 129.00	
120mm		43 x 3.20			= 137.60	
1						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	10mm	25	× 8.60	=	215.00	
	Covering Slab					
	16MM	43	× 1.80	=	77.40	
	Crank Rod 16MM	43	× 2.00	=	102.00	
	12MM	18	× 8.60	=	154.80	
	CC Drain 10MM	171	× 2.20	=	376.20	
	8MM	16	× 20.00	=	320.00	
	Abstract		Total	Kg/Rft		
	8MM		320.00	× 0.39	= 124.8	

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Measurement Book

No. B

184391

From ..... To .....

Name of nature of Agency.....

Description of work .....

Description &c. of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
	3	4	5	6	7	8
		Dimensions				
		591.20	× 0.62 =	366.544		
		421.40	× 0.89 =	375.05		
		179.40	× 1.62 =	290.63		
				1157.02 kgs		
				11.57 Qtl		